CLAIMS

1. (Currently Amended) A system for decoupling a capacitive path from an IO pad and a protected component, comprising:

a protected component;

an IO pad coupled to the protected component;

a source of current to the IO pad;

a first circuit <u>directly connected to the IO pad and the protected component</u>, which ceases to conduct after being exposed to a current;

a second circuit able to cause the first circuit to cease conducting in response to variations in voltage or current, <u>comprising</u>:

a node coupled to the first circuit;

first and second diodes coupled to the node; and

a capacitive path that is decoupled from the IO pad and protected component <u>in response to</u> the first circuit <u>ceasing eeases</u> to conduct.

- 2. (Original) The system of Claim 1, wherein the protected component comprises a processor.
- 3. (Original) The system of Claim 1, wherein the first circuit comprises a fuse.
- 4. (Currently Amended) The system of Claim 1, wherein the second circuit comprises a fuse blow pad that is coupled to the node.
- 5. (Cancelled) The system of Claim 1, wherein:

the second circuit comprises a control signal input; and the second circuit shorts to ground upon receipt of a control signal.

- 6. (Cancelled) The system of Claim 1, wherein the second circuit comprises a field-effect transistor.
- 7. (Currently Amended) The system of Claim 1, wherein the capacitive path comprises:
 - [[a]] the node coupled to the first circuit;
 - [[a]] the first diode, the anode of which is coupled to the node; and
 - [[a]] the second diode, the cathode of which is coupled to the node.
- 8. (Original) The system of Claim 7, wherein the voltage coupled to the cathode of the first diode is a voltage other than a ground voltage.
- 9. (Original) The system of Claim 7, wherein the voltage coupled to the anode of the second diode is a ground voltage.
- 10. (Original) The system of Claim 7, wherein:
 - a first voltage is coupled to the IO pad;
 - a second voltage is coupled to the second circuit; and

the difference between the first voltage and the second voltage is less than the activation voltage of the first diode or the second diode.

- 11. (Original) The System of Claim 7, wherein:
 - the second circuit has a control signal input;
 - the second circuit shorts to ground upon receipt of a control signal;
 - a voltage is coupled to the IO pad; and

the difference between the voltage coupled to the IO pad and the ground voltage is less than the activation voltage of the first diode or the second diode.

- 12. (Original) The system of Claim 11, wherein a plurality of fuse blow control devices are connected to the same fuse blow control signal input.
- 13. (Cancelled) A system for decoupling a capacitive path from an IO pad and a protected component comprising:
 - a protected component;
 - an IO pad coupled to the protected component;
 - a source of current to the IO pad;
 - a first circuit which ceases to conduct when exposed to a current;
 - a second circuit which ceases to conduct when exposed to a current;
- a third circuit able to cause the first circuit to cease conducting in response to variations in voltage;
- a fourth circuit able to cause the second circuit to cease conducting in response to variations in voltage; and
- a capacitive path that is decoupled from the IO pad and protected component when the first and second circuits cease conducting.

- 14. (Cancelled) The System of Claim 13, wherein the capacitive path comprises a diode pair, further comprising:
 - a first node;
 - a first diode, the anode of which is coupled to the first node;
 - a second diode, the cathode of which is coupled to the first node;
 - a second node coupled to the cathode of the first diode; and
 - a third node coupled to the anode of the second diode.
- 15. (Cancelled) The System of Claim 13, wherein the third circuit comprises a fuse blow pad.
- 16. (Cancelled) The System of Claim 13, wherein the fourth circuit comprises a fuse blow pad.
- 17. (Cancelled) The System of Claim 13, wherein the first circuit comprises a fuse.
- 18. (Cancelled) The System of Claim 13, wherein the second circuit comprises a fuse.
- 19. (Cancelled) The System of Claim 13, wherein a voltage is coupled to the third circuit.
- 20. (Cancelled) The System of Claim 13, wherein the voltage coupled to the fourth circuit is a voltage other than ground.
- 21. (Cancelled) The System of Claim 13, wherein a voltage is coupled to the first circuit.

- 22. (Cancelled) The System of Claim 13, wherein the voltage coupled to the second circuit is ground.
- 23. (Cancelled) The system of Claim 13, wherein:
 - a first voltage is coupled to first circuit;
 - a second voltage is coupled to the second circuit;
 - a third voltage is coupled to the third circuit;
 - a fourth voltage is coupled to the fourth circuit;

the difference of the first voltage and the third voltage causes the first circuit to cease conducting; and

the difference of the second voltage and the fourth voltage causes the second circuit to cease conducting.

- 24. (Cancelled) The system of Claim 13, further comprising:
 - a plurality of capacitive paths, IO pads, and protected elements, in which:
 - a capacitive path is coupled to an IO pad and protected element;
 - each capacitive path is coupled to the first circuit;
 - each capacitive path is coupled to the second circuit;
 - each capacitive path is coupled to the third circuit; and
 - each capacitive path is coupled to the fourth circuit.
- 25. (Cancelled) The system of Claim 24, in which:

a capacitive path comprises a diode pair;
the first node of a diode pair is coupled to an IO pad and a processor;
the second node of each diode pair is coupled to the first circuit;
the second node of each diode pair is coupled to the third circuit;
the third node of each diode pair is coupled to the second circuit; and
the third node of each diode pair is coupled to the fourth circuit.

26. (Cancelled) A method for decoupling a capacitive path from an IO pad and a protected component, comprising:

applying a first voltage to an IO pad of a protected component;
generating a current between the IO pad and a control device; and
separating the IO pad and protected component from a capacitive path as a function of the
current between the IO pad and the control device.

27. (Cancelled) A computer program product for decoupling a capacitive path from an IO pad and a protected component, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for applying a first voltage to an IO pad of a protected component; computer code for generating a current between the IO pad and a control device; and computer code for separating the IO pad from a capacitive path as a function of the current between the IO pad and the control device.

28. (Cancelled) A processor product for decoupling a capacitive path from an IO pad and a protected component, the product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for applying a first voltage to an IO pad of a protected component; computer code for generating a current between the IO pad and a control device; and computer code for separating the IO pad from a capacitive path as a function of the current between the IO pad and the control device.

- 29. (Original) The system of Claim 3, wherein the fuse is blown by a laser.
- 30. (Cancelled) The system of Claim 13, wherein the first circuit has ceased to conduct due to a signal generated by the third circuit, but the second circuit has not ceased to conduct.
- 31. (New) A method for decoupling a capacitive path from an IO pad and a protected component, comprising:

generating by a current source a current to the IO pad;

directly connecting a first circuit to the IO pad and the protected component, wherein the first circuit ceases to conduct in response to being exposed to a current;

coupling a node of a second circuit to the first circuit;

coupling first and second diodes of the second circuit to the node;

in response to variation in voltage or current, causing, by the second circuit, the first circuit to cease conducting; and

in response to the first circuit ceasing to conduct, decoupling a capacitive path from the IO pad and the protected component.